Important Dates
Last date for online registration: 30/09/2019
Course dates: 14/10/2019 - 18/10/2019

Venue for the Course:
Course will be held at Seminar Hall, Department of Civil Engineering, IIT Bombay.

Registration
For QIP course details and registration, visit:
https://portal.iitb.ac.in/ceqipapp/courseDetails.jsp?c_id=2483

For CEP course details and registration, visit:
https://portal.iitb.ac.in/ceqipapp/courseDetails.jsp?c_id=2463

Eligibility
For the QIP course: Faculty members from AICTE approved degree level engineering colleges only. No fee for the course. (Note: Eligible participants must register using the link under QIP programme)

For the CEP course: Practicing engineers and scientists in Government and Industries, College and University teachers, research scholars and students. (Note: Eligible participants must register using the link under CEP programme)

Course fee for the CEP programme:
Faculty members of other Institutes: Rs. 17,700/-
Students: Rs. 8,850/-
Government Organisations: Rs. 17,700/-
Industry participants: Rs. 23,600/-
Overseas and Foreign Nationals: Rs. 70,800/-

Continuing Education and Quality Improvement Programme (CE & QIP)

Short Term Course
Modelling energy and water fluxes at the land surface from remote sensing
14th-18th October 2019

Course Coordinator
Prof. Eswar Rajasekaran
Department of Civil Engineering
Indian Institute of Technology Bombay

Guest Faculty
Dr. Gilles Boulet
Center for the Study of the Biosphere from Space (CESBIO)
Toulouse, France
Introduction

The land surface acts as an interface between the atmosphere and the solid earth. There is a continuous transfer of energy and water fluxes happening between the earth and the atmosphere creating a feedback loop thereby influencing the various processes occurring at the surface. Modelling these fluxes is of primary importance to various applications such as weather forecasting, agricultural monitoring etc. This course will provide a thorough overview about the various processes at the earth surface and the principles in modelling them primarily using remote sensing data. All the principles will be explained through examples, demonstration and hands on using selected computational models.

Course Outline

The course will contain class-room lecture modules covering theory and methods on following topics:
- Thermal infrared remote sensing
- Water and energy balance at the land surface
- Modelling evapotranspiration and other energy components
- Modelling water stress

There will be demonstrations and hands-on sessions on relevant models.

Course Benefits

This course will be useful for practitioners and researchers in the agriculture, hydrology, water management and meteorology domains. The basic theoretical concepts along with practical applications in land surface modelling can be explored and understood by the participants.

Transport, Boarding & Lodging

Faculty members from AICTE approved degree level engineering colleges (for the QIP programme): Entitled for to and fro railway fare in II Class (Sleeper Class) or III AC by the shortest route from their institute to Mumbai and auto fare from nearest railway station to IIT Bombay. Local participants will be paid second class railway fare or BEST Bus fare. In addition, they can avail free accommodation in student hostels (non-AC) in IIT Bombay. Few rooms are available in the guest house on payment basis in the first come first serve mode.

Other participants (for the CEP programme): Limited paid shared accommodation is available in IIT Bombay guest house (AC) and student hostels (non-AC) on first come first serve basis.

Since accommodation is limited, we will be unable to accommodate family members of the Participants.

Other details

Successful participants would be awarded Course Participant Certificate.

Contact Information

Office of Continuing Education Programme, Indian Institute of Technology Bombay, Powai, Mumbai - 400 076.
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Course Coordinator

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